

c. Amendments to Claims

1. (Original) A apparatus, comprising:
a solid that comprises an crosslinked collection of amphiphilic
5 organosilicate precursors; and
wherein the amphiphilic organosilicate precursors form a matrix with an
array of micro-structures dispersed in the matrix.
2. (Presently amended) The apparatus of claim ~~40~~1, wherein the micro-
10 structures are voids or pores in the matrix.
3. (Presently amended) The apparatus of claim ~~44~~2, wherein the voids or
pores are hydrophilic and portions of the matrix not adjacent to the voids or
pores are hydrophobic.
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4. (Presently amended) The apparatus of claim ~~44~~2, wherein the solid is
non-wettable by water.
5. (Presently amended) The apparatus of claim ~~44~~2, further comprising:
20 a planar optical waveguide comprising an optical core layer and the solid;
and
wherein the solid forms an optical cladding layer for the optical core layer.